

FORM PTO-1449  
(REV. 7-80)

SEP 02 2003

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
290097.402D1APPLICATION NO.  
10/606,644

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## APPLICANTS

Michael W. Reed et al.

## FILING DATE

June 25, 2003

## GROUP ART UNIT

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>R</i>	AA	2,264,303	12/02/41	Dickey	260	205	
	AB	3,970,617	07/20/94	Bruno	260	152	
	AC	4,358,535	11/09/82	Falkow et al.	435	5	
	AD	4,868,105	09/19/89	Urdea et al.	435	6	
	AE	4,954,630	09/04/90	Klein et al.	544	102	
	AF	5,124,246	06/23/92	Urdea et al.	435	6	
	AG	5,210,015	05/11/93	Gelfand et al.	435	6	
	AH	5,304,645	04/19/94	Klein et al.	544	10.2	
<i>M</i>	AI	5,326,679	07/05/94	Yanagisawa et al.	430	495	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>U</i>	AJ	WO 90/14353	11/29/90	WIPO		
	AK	WO 92/10588	06/25/92	WIPO		
	AL	WO 96/17957	06/13/96	WIPO		
	AM	WO 97/39008	10/23/97	WIPO		
<i>U</i>	AN	WO 99/40226	08/12/99	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>R</i>	AO	"98 Catalogue", 1998 Amersham Pharmacia Biotech S-Hertogenbosch, Netherlands, pg. 127, FluoroBlue.
	AP	Asanuma et al., "Photo-Responsive Oligonucleotides Carrying Azobenzene in the Side-Chains," <i>Tetrahedron Letters</i> 39: 9015-9018, 1998.
	AQ	Baker et al., "Fluorescent Reagents. Acyl Chlorides and Acyl Hydrazides," <i>Journal of the Chemical Society</i> , pg. 170-173, 1950.
<i>M</i>	AR	Bickett et al., "A High Throughput Fluorogenic Substrate for Stromelysin (MMP-3)," <i>Annals of the New York Academy of Science</i> 732: 351-355, 1994.

EXAMINER

DATE CONSIDERED

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q	BA	5,328,824	07/12/94	Ward et al.	435	6	
	BB	5,451,463	09/19/95	Nelson et al.	428	402	
	BC	5,455,157	10/03/95	Hinzpeter et al.	435	6	
	BD	5,492,806	02/20/96	Drmanac et al.	435	5	
	BE	5,502,177	03/26/96	Matteucci et al.	536	26.6	
	BF	5,512,667	04/30/96	Reed et al.	536	24.31	
	BG	5,525,464	06/11/96	Drmanac et al.	435	6	
	BH	5,556,752	09/17/96	Lockhart et al.	435	6	
M	BI	5,696,251	12/09/97	Arnold, Jr. et al.	536	23.1	

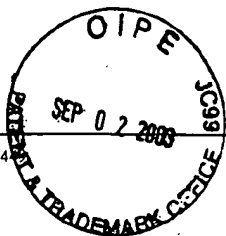
## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
q	BJ	WO 99/51621	10/14/99	WIPO		
1	BK	WO 00/06771	02/10/00	WIPO		
u	BL	WO 00/70685	11/23/00	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

M	BM	Boger et al., "Studies on the Total Synthesis of CC-1065: Preparation of a Synthetic Simplified 3-Carbamoyl-1,2-dihydro-3H-pyrrolo[3,2-e]indole Dimer/Trimer/Tetramer (CDPI Dimer/Trimer/Tetramer)...," <i>J. Org. Chem.</i> 52: 1521-1530, 1987.
	BN	Bolli et al., "Watson-Crick base-pairing properties of bicyclo-DNA," <i>Nucleic Acids Research</i> 24(23): 4660-4667, 1996.
	BO	Cantor et al., "Oligonucleotide Interactions. III. Circular Dichroism Studies of the Conformation of Deoxyoligonucleotides," <i>Biopolymers</i> 9: 1059-1077, 1970.
	BP	Cardullo et al., "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 85: 8790-8794, December 1988.
K	BQ	Demidov et al., "Kinetics and mechanism of polyamide ("peptide") nucleic acid binding to duplex DNA," <i>Proc. Natl. Acad. Sci. USA</i> 92: 2637-2641, March 1995.

EXAMINER	DATE CONSIDERED
<i>Qu Li</i>	<i>7/7/05</i>
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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
U	CA	5,801,155	09/01/98	Kutyavin et al.	514	44	
	CB	5,824,796	10/20/98	Petrie et al.	536	26.7	
	CC	5,830,653	11/03/98	Froehler et al.	435	6	
	CD	5,846,726	12/08/98	Nadeau et al.	435	6	
	CE	5,876,930	03/02/99	Livak et al.	435	6	
	CF	5,942,610	08/24/99	Nelson et al.	536	25.32	
	CG	5,952,202	09/14/99	Aoyagi et al.	435	91.2	
Jh	CH	6,007,992	12/28/99	Lin et al.	435	6	

**FOREIGN PATENT DOCUMENTS**

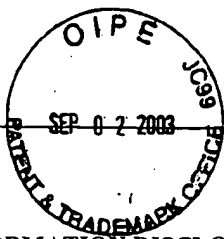
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES NO

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

U	CI	Du et al., "PhotochemCAD: A Computer-Aided Design and Research Tool in Photochemistry," <i>Photochemistry and Photobiology</i> 68(2): 141-142, 1998.
	CJ	Eisen and Brown, "DNA Arrays for Analysis of Gene Expression," <i>Methods in Enzymology</i> 303: 179-205, 1999.
	CK	Forchiassin and Russo, "An Efficient Synthesis of <i>trans</i> -Hexahydrochroman-7-one," <i>J. Heterocyclic Chem.</i> 20: 493-494, March/April 1983.
	CL	Freifelder, D., <i>Physical Biochemistry</i> , Second Edition, Freeman & Co., New York, "Hybridization Between Single-Stranded Polynucleotides," pp. 700-712, 1982.
	CM	Gamper et al., "Facile preparation of nuclease resistant 3' modified oligodeoxynucleotides," <i>Nucleic Acids Research</i> 21(1): 145-150, 1993.
	CN	Gamper et al., "Modulation of C <sup>m</sup> /T, G/A, and G/T Triplex Stability by Conjugate Groups in the Presence and Absence of KCl," <i>Biochemistry</i> 36: 14816-14826, 1997.
	CO	Haugland, R.P., <i>Handbook of Fluorescent Probes and Research Chemicals</i> , Michelle Spence (ed.), 6 <sup>th</sup> Edition, Molecular Probes, Eugene, OR, "Substates for Miscellaneous Enzymes," Chapter 10.5, pp. 235-236, 1996.
Jh	CP	Hawthorne et al., "Evaluation of Some Fluorogenic Substrates for Continuous Assay of Aminopeptidase P," <i>Analytical Biochemistry</i> 253: 13-17, 1997.

EXAMINER <i>pu li</i>	DATE CONSIDERED 7/7/06
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## U.S. PATENT DOCUMENTS

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h	DA	6,028,183	02/22/00	Lin et al.	536	22.1	
u	DB	6,312,894	11/06/01	Hedgpeth et al.	435	6	

## FOREIGN PATENT DOCUMENTS

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					YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

h	DC	Hirshberg et al., "Crystal Structure of Phosphate Binding Protein Labeled with a Coumarin Fluorophore, a Probe for Inorganic Phosphate," <i>Biochemistry</i> 37: 10381-10385, 1998.
	DD	Holland et al., "Detection of specific polymerase chain reaction product by utilizing the 5' ? 3' exonuclease activity of <i>Thermus aquaticus</i> DNA polymerase," <i>Proc. Natl. Acad. Sci. USA</i> 88: 7276-7280, August 1991.
	DE	Huang et al., "X-ray and <sup>1</sup> H NMR Studies of the Conformational Equilibria of 2-Z-3-Phenyl-1,3,2-oxazaphosphorinanes. Steric and Stereoelectronic Influences on the Unexpected Axial Preferences of Me <sub>2</sub> N and MeNH Substituents on Three-Coordinate Phosphorus," <i>J. Org. Chem.</i> 58: 6235-6246, 1993.
	DF	Ibrahim et al., "The potential of 5' nuclease PCR for detecting a single-base polymorphism in <i>Orthopoxvirus</i> ," <i>Molecular and Cellular Probes</i> 11: 143-147, 1997.
	DG	Innis and Gelfand, <i>PCR Protocols: A Guide to Methods and Applications</i> , Academic Press, San Diego, Innis et al. (eds.), "Optimization of PCRs," Chapter 1, pp. 3-27, 1990.
	DH	Lee et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes," <i>Nucleic Acid Research</i> 11(16): 3761-3766, August 11, 1993.
	DI	Li and Glazer, "Design, Synthesis, and Spectroscopic Properties of Peptide-Bridged Fluorescence Energy-Transfer Cassettes," <i>Bioconjugate Chem.</i> 10: 241-245, 1999.
	DJ	Livak et al., "Oligonucleotides with Fluorescent Dyes at Opposite Ends Provide a Quenched Probe System Useful for Detecting PCR Product and Nucleic Acid Hybridization," <i>PCR Methods and Applications</i> 4: 357-362, 1995.
	DK	Lukhtanov et al., "Direct, Solid Phase Assembly of Dihydropyrroloindole Peptides with Conjugated Oligonucleotides," <i>Bioconjugate Chem.</i> 7: 564-567, 1996.
u	DL	Matayoshi et al., "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247: 954-958, February 23, 1990.

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FORM PTO-1 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 290097.402D1	APPLICATION NO. 10/606,644
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**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

EA	Mayfield and Corey, "Automated Synthesis of Peptide Nucleic Acids and Peptide Nucleic Acid-Peptide Conjugates," <i>Analytical Biochemistry</i> 268: 401-404, 1999.
EB	Mayfield and Corey, "Enhancing Solid Phase Synthesis By a Noncovalent Protection Strategy-Efficient Coupling of Rhodamine to Resin-Bound Peptide Nucleic Acids," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 9: 1419-1422, 1999.
EC	Milesi et al., "Synthesis of Oligonucleotide Conjugates in Anhydrous Dimethyl Sulfoxide," <i>Methods in Enzymology</i> 313: 164-173, 1999.
ED	Morrison, L.E., <i>Nonisotopic DNA Probe Techniques</i> , Kricka, L.J. (ed.), Academic Press, Inc., San Diego, "Detectoin of Energy Transfer and Fluorescence Quenching," Chapter 13, pp. 311-352, 1992.
EE	Nazarenko et al., "A closed tube format for amplification and detection of DNA based on energy transfer," <i>Nucleic Acids Research</i> 25(12): 2516-2521, 1997.
EF	Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <i>Science</i> 254: 1497-1500, December 6, 1991.
EG	Petrie et al., "An Improved CPG Support for the Synthesis of 3' -Amine-Tailed Oligonucleotides," <i>Bioconjugate Chem.</i> 3: 85-87, 1992.
EH	Pon and Yu, "Hydroquinone-O, O'-Diacetic acid ('Q-linker') as a replacement for succinyl and oxalyl linker arms in solid phase oligonucleotide synthesis," <i>Nucleic Acids Research</i> 25(18): 3629-3635, 1997.
EI	Reed et al., "Acridine- and Cholesterol-Derivatized Solid Supports for Improved Synthesis of 3'-Modified Oligonucleotides," <i>Bioconjugate Chem.</i> 2: 217-225, 1991.
EJ	Rothman and Still, "A New Generation of Fluorescent Chemosensors Demonstrate Improved Analyte Detection Sensitivity and Photobleaching Resistance," <i>Bioorganic &amp; Medicinal Chemistry Letters</i> 9: 509-512, 1999.
EK	Seela et al., "8-AZA-7-Deazapurine DNA: Synthesis and Duplex Stability of Oligonucleotides Containing 7-Substituted Bases," <i>Nucleosides &amp; Nucleotides</i> 18(6&7): 1399-1400, 1999.

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 7/7/05
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FORM PTO-148  
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## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
			YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Q	FA	Seela et al., "Parallel-Stranded DNA Formed by New Base Pairs Related to the Isoguanine-Cytosine or Isocytosine-Guanine Motifs," <i>Nucleosides &amp; Nucleotides</i> 18(6&7): 1543-1548, 1999.
	FB	Seela and Zulauf, "Synthesis of oligonucleotides containing pyrazolo[3,4- <i>d</i> ]-pyrimidines: The influence of 7-substituted 8-aza-7-deazaadenines on the duplex structure and stability," <i>J. Chem. Soc. Perkin Trans. 1</i> : 479-488, 1999.
	FC	Sokol et al., "Real time detection of DNA-RNA hybridization in living cells," <i>Proc. Natl. Acad. Sci.</i> 95: 11538-11543, September 1998.
	FD	Tyagi et al., "Multicolor molecular beacons for allele discrimination," <i>Nature Biotechnology</i> 16: 49-53, January 1998.
	FE	Uhlmann et al., "PNA: Synthetic Polyamide Nucleic Acids with Unusual Binding Properties," <i>Angew. Chem. Int. Ed.</i> 37: 2796-2823, 1998.
	FF	Van Ness and Chen, "The use of oligodeoxynucleotide probes in chaotrope-based hybridization solutions," <i>Nucleic Acids Research</i> 19(19): 5143-5151, 1991.
	FG	Whitcombe et al., "Detection of PCR products using self-probing amplicons and fluorescence," <i>Nature Biotechnology</i> 17: 804-807, August 1999.
	FH	White et al. "A Continuous Fluorometric Assay for Leukotriene D <sub>4</sub> Hydrolase," <i>Analytical Biochemistry</i> 268: 245-251, 1999.
	FI	Wiegant et al., "Multiple and sensitive fluorescence in situ hybridization with rhodamine-, fluorescein-, and coumarin-labeled DNAs," <i>Cytogenet. Cell Genet.</i> 63: 73-76, 1993.
	FJ	Wittwer et al., "The LightCycler <sup>TM</sup> : A Microvolume Multisample Fluorimeter with Rapid Temperature Control," <i>BioTechniques</i> 22(1): 176-181, 1997.
U	FK	Young and Anderson, <i>Nucleic Acid Hybridisation</i> , Hames and Higgins (eds.), IRL Press, Oxford, England, "Quantitative Analysis of Solution Hybridisation," Chapter 3, pp. 47-111, 1985.

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FORM PTO-144  
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4	GA	6,531,581 B1	03/11/03	Nardone et al.	534	560	
	GB	6,485,901 B1	11/26/02	Gildea et al.	435	5	
	GC	6,465,644 B1	10/15/02	Yan et al.	544	99	
	GD	6,465,175 B2	10/15/02	Horn et al.	435	6	
	GE	6,448,407 B1	09/10/02	Lee et al.	546	283.1	
	GF	6,416,953 B1	07/09/02	Heller	435	6	
	GG	6,399,392 B1	06/04/02	Haugland et al.	436	172	
	GH	6,323,337 B1	11/27/01	Singer et al.	536	26.6	
4	GI	6,117,986	09/12/00	Nardone et al.	534	727	

## FOREIGN PATENT DOCUMENTS

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					YES	NO
4	GJ	GB 1533121	11/22/78	Great Britain		
4	GK	GB 1394368	05/14/75	Great Britain		
4	GL	WO 99/64431	12/16/99	WIPO		
4	GM	WO 97/29154	08/14/97	WIPO		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

4	GN	Dawson, J.F., "The Structure and Properties of Disperse Dyes in Polyester Coloration," <i>JSDC</i> 99: 183-191, July/August 1983.
4	GO	Heesemann, J., "Studies of Monolayers. 1. Surface Tension and Absorption Spectroscopic Measurements of Monolayers of Surface-Active Azo and Stilbene Dyes," <i>Journal of the American Chemical Society</i> 102(7): 2167-2176, March 26, 1980.
4	GP	Keil, D. et al., "Preparation and UV/Vis Spectroscopic Characterization of <i>N,N</i> -Disubstituted 2-Amino-5-arylazoselenazoles and Some of Their Carbocyclic and Heterocyclic Analogues," <i>J. Prakt. Chem.</i> 342(2): 169-174, 2000.

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4	HA	6,114,518	09/05/00	Pitner et al.	536	25.3	
	HB	5,272,259	12/21/93	Claussen et al.	534	689	
u	HC	3,407,189	10/22/68	Merian	260	207.1	

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					YES	NO
	HD					
	HE					
	HF					
	HG					
	HH					
	HI					

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	HJ	Lytle, M.H. et al., "Alternatives to FRET: Design of Fluorescence-quenched Oligonucleotide Probes with Extremely High Signal/Noise Ratios," BIOSIS Database, Accession No. 2001:519181. See also Poster Session from 12 <sup>th</sup> International Genome Sequencing and Analysis Conference, Miami Beach, FL, September 12-15, 2000.
u	HK	Sabnis, R. W. et al., "Synthesis and Application of 5-arylazothiophene Derivatives," <i>Bull. Chem. Soc. Jpn.</i> 64: 3768-3770, 1991.
u	HL	Sijm, D.T.H.M. et al., "Aqueous solubility, octanol solubility, and octanol/water partition coefficient of nine hydrophobic dyes," <i>Environmental Toxicology and Chemistry</i> 18(6): 1109-1117, 1999.
u	HM	Weaver and Shuttleworth, "Heterocyclic diazo componenets," <i>Dyes and Pigments</i> 3: 81-121, 1982.
	HN	
	HO	

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